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PTO/SB/05 (4/98)

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**UTILITY
PATENT APPLICATION
TRANSMITTAL**

(Only for new nonprovisional applications under 37 C.F.R. § 1.53(b))

Attorney Docket No. **TSMI:001**First Inventor or Application Identifier **Belfiglio, Edward**Title **Improved Saw Blade Guide and Components Thereof**Express Mail Label No. **EK757411696US****APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

1. * Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. Specification [Total Pages **14**]
 - Descriptive title of the Invention
 - Cross References to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to Microfiche Appendix
- 1p. - Background of the Invention
- 2p. - Brief Summary of the Invention
- 1p. - Brief Description of the Drawings (if filed)
- 5p. - Detailed Description
- 4p. - Claim(s)
- 1p. - Abstract of the Disclosure
3. Drawing(s) (35 U.S.C. 113) [Total Sheets **3**]
4. Oath or Declaration [Total Pages]
 - a. Newly executed (original or copy)
 - b. Copy from a prior application (37 C.F.R. § 1.63(d))
(for continuation/divisional with Box 16 completed)
 - i. **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).

NOTE FOR ITEMS 1 & 13: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).

ADDRESS TO: Assistant Commissioner for Patents
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5. Microfiche Computer Program (Appendix)
6. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
 - a. Computer Readable Copy
 - b. Paper Copy (identical to computer copy)
 - c. Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

7. Assignment Papers (cover sheet & document(s))
8. 37 C.F.R. § 3.73(b) Statement Power of
(when there is an assignee) Attorney
9. English Translation Document (if applicable)
10. Information Disclosure Statement (IDS)/PTO-1449 Copies of IDS
Citations
11. Preliminary Amendment
12. Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
- * Small Entity Statement(s) Statement filed in prior application,
(PTO/SB/09-12) Status still proper and desired
13. Certified Copy of Priority Document(s)
(if foreign priority is claimed)
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16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment:
 Continuation Divisional Continuation-in-part (CIP) of prior application No: _____ / _____

Prior application information: Examiner _____

Group / Art Unit: _____

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

17. CORRESPONDENCE ADDRESS

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Signature			Date 8/23/00

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**STATEMENT CLAIMING SMALL ENTITY STATUS
(37 CFR 1.9(f) & 1.27(b))--INDEPENDENT INVENTOR**Docket Number (Optional)
TSMI : 001Applicant, Patentee, or Identifier: Edward E. BelfiglioApplication or Patent No.: To be assigned

Filed or Issued:

Title: IMPROVED SAW BLADE GUIDE AND COMPONENTS THEREFOR

As a below named inventor, I hereby state that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees to the Patent and Trademark Office described in:

- the specification filed herewith with title as listed above.
- the application identified above.
- the patent identified above.

I have not assigned, granted, conveyed, or licensed, and am under no obligation under contract or law to assign, grant, convey, or license, any rights in the invention to any person who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern, or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

- No such person, concern, or organization exists.
- Each such person, concern, or organization is listed below.

Separate statements are required from each named person, concern, or organization having rights to the invention stating their status as small entities. (37 CFR 1.27)

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

Edward E. Belfiglio

NAME OF INVENTOR

NAME OF INVENTOR

NAME OF INVENTOR

Signature of inventorSignature of inventorSignature of inventor8/23/00

Date

Date

Date

IMPROVED SAW BLADE GUIDE AND COMPONENTS THEREFOR

BACKGROUND OF THE INVENTION

This invention relates generally to saw blade guides and blocks or inserts used on such guides to stabilize a circular saw blade or a band saw blade of a sawmill. More specifically, this invention relates to a saw blade guide that incorporates a rotational device for orienting said saw blade guide to an optimum position and providing microscopic adjustment of said saw blade guide on a saw blade and the inserts for the saw blade guide.

Generally, saw blade guides have long been known and used for stabilizing both circular saw blades and band saw blades. While some early saw blade guides, such as those disclosed in U.S. Pat. No. 435,105 to R. McChesney issued on April 8, 1890, use inserts or blocks which are removably fastened to the saw blade guide by means of threaded fasteners, none of those prior art inserts use cap screws for holding the inserts in place which are countersunk or counterbored within the insert or guide block which are threadably inserted onto and removed from a blade opposing surface of the insert and guide surface and remove from a blade opposing surface of the insert and guide surface upon which the insert is mounted.

Moreover, none of the prior art inserts that are mounted on the blade guides are constructed of a bimetal consisting of carbon steel on one surface and an austenitic chromium carbide abrasion resistant alloy on the opposing surface of the insert.

Further, none of the prior art saw guides and inserts incorporate a system for rotating a rectangular insert on a cylindrical head which incorporates a threaded rod. The

cylindrical head and threaded rod allows for microscopic adjustment of the saw guide and orientation of the rectangular guide and insert for optimum stabilization, and a securing nut for holding the guide in its optimum position.

SUMMARY OF THE INVENTION

It is the object of my invention to provide a novel metal insert for a saw blade guide of a sawmill.

It is a further object of my invention to provide a novel metal insert for a saw blade guide that is removably attached to the saw guide.

It is a further object of my invention to provide a novel metal insert for a saw blade guide, which is constructed of a bimetal. The bimetal insert is formed such that the metallic material on the portion of the insert that comes into contact with the saw blade is harder than the metallic material near the opposing surface thereof. The bimetal according to a preferred embodiment comprises an austenitic chromium carbide abrasion resistant alloy on the surface that comes into contact with the saw blade and carbon steel on the opposing side of the insert.

It is a further object of my invention to provide a novel device for rotating a rectangular guide with an insert attached on a cylindrical head and incorporating a threaded rod for the purpose of microscopic adjustment and optimum orientation of the guide and insert to the saw blade, and providing a securing nut on said threaded rod for holding the guide in position.

Briefly, in accordance with my invention there is provided a metal insert for a saw blade guide for stabilizing a saw blade. The material selected for the insert is from the

group consisting of a bimetal with one side carbon steel and the opposite side an austenitic chromium carbide abrasion resistant alloy that has a Brinell hardness number between about 460 to 614.

Further, in accordance with my invention, there is provided a saw blade guide for mounting a blade-stabilizing insert thereon. The guide consists of a base plate and an insert disposed on one surface of the base plate. The block and the insert define an interiorly drilled and counterbored blind hole that contains the cylindrical end of the threaded rod. Said insert is attached to the guide block by means of screws passing through drilled and countersunk holes in the guide block and into tapped holes in the insert. A securing nut engaging the outer surface of the threaded shaft is also provided. The securing nut is rotatable with respect to the threaded shaft such that a surface of the securing nut engages the top surface of said base plate upon rotation into engagement therewith thereby rendering the threaded shaft nonrotatable in relation to the base plate.

These and other objects, features and advantages of the present invention will become apparent to those skilled in the art from the following detailed description and attached drawings upon which, by way of example, only the preferred emodiments of my invention are illustrated.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 shows a perspective view of a guide for stabilizing a saw blade according to a preferred embodiment of the present invention.

FIG. 2 shows an exploded perspective view of a pair of opposing guides for stabilizing a saw blade, illustrating a preferred embodiment of the present invention.

FIG. 3 shows a front elevation view of a cylindrical rotational device and incorporated threaded rod being a component of the preferred embodiment of a guide for stabilizing a saw blade shown in **FIG. 1**.

FIG. 4 shows a top plan view of a rectangular base plate being a component of the preferred embodiment of a guide for stabilizing a saw blade shown in **FIG. 1**.

FIG. 5 shows a perspective view of a novel saw guide insert being a component of **FIG. 1**.

FIG. 6 shows a side elevation view of a novel saw guide insert being a component of **FIG. 1**.

FIG. 7 shows a top plan view of a jam nut being a component of the guide shown in **FIG. 1**.

FIG. 8 shows an exploded perspective view of a guide for stabilizing a saw blade according to an alternative embodiment of the present invention.

FIG. 9 shows a top plan view of a guide insert being a component of the guide shown in **FIG. 8**.

DESCRIPTION OF THE PREFERRED EMBODIMENTS

Referring now to the drawings and, in particular, to **FIG. 1** and **FIG. 2**, there is shown in a preferred embodiment of my invention, an improved blade guide **10**, for use in a conventional band saw mill assembly (not shown) to stabilize a band saw blade **11** having cutting teeth **12**. The use of two improved blade guides **10a, 10b** on opposing surfaces of the blade **11**, as shown in **FIG. 2**, limits or effectively prevent lateral vibration, bending or dishing of the blade during sawing operations. A third blade guide

(not shown) may be further positioned along the smooth edge of the blade to prevent longitudinal vibration or displacement of the blade. At the outset, it will be understood that the assemblies **10a**, **10b** can also be used to stabilize a circular saw blade of a circular saw mill if so desired.

Each blade guide **10** includes a guide block **13**, which according to the embodiment shown in **FIGS. 1-7**, includes a base plate **14** having a top surface and a bottom surface and an insert **24**. The base plate **14** and insert **24** are preferably rectangular in shape as shown in the drawings, however, other polygonal shapes and configurations are also contemplated. An opening **15** disposed in the center region of the base plate **14** is configured to rotatably receive a threaded shaft **16** therein. The shaft **16** has an enlarged head section **17** at a first end thereof, a male-threaded section **18** along at least a portion of the length thereof, and a hexagonal head **19** at a second end thereof.

The opening **15** in the base plate is of a diameter larger than the outer diameter of the threaded section **18** of the shaft **16**, but smaller in diameter than the diameter of the enlarged head section **17**. Therefore, in assembling the blade guide, the length of the shaft is passed through the opening **15** until the enlarged head section **17** comes into contact with a bottom surface of the base plate **14**, such that the shaft **16** can rotate freely in relation to the base plate **14**.

The base plate **14** also includes one or more untapped screw holes **20** therein for receiving a corresponding one or more fasteners **22**. According to the shown preferred embodiment, two holes **20** are formed in the base plate **14**, one on either side of the larger central opening **15**. Each screw hole **20** may have a recessed frustoconical countersunk or counterbored portion **21** formed above the screw hole **20** so that a cap screw, such as is

shown at **22** in **FIG. 1** and **FIG. 2**, can be inserted therein to a level below the upper surface of the base plate **14**. Preferably the cap screws **22**, as shown in the example of **FIG. 1** and **FIG. 2**, is of the hex socket type for use of a standard hex wrench to secure and loosen the base plate **14** from a corresponding blade guide insert **24**, although other types of commonly known cap screws and fasteners could be employed wherein a standard tool such as a screwdriver could be used to secure and remove the blade guide insert from the base plate.

The threaded shaft **16** is threadably received in a threaded opening disposed in a mounting bracket of the saw mill assembly. The position of the guide block **13** relative to the blade **11** can be adjusted by rotation of the shaft **16** in relation to the mounting bracket thereby effecting linear translational movement of the shaft **16** along its longitudinal axis. Rotation of the shaft **16** relative to the mounting bracket can be effectuated by engaging the hexagonal head **19** with an appropriately sized and shaped tightening tool such as a wrench. The hexagonal configuration of the second end of the shaft **16** is merely one common example of a head configuration that permits the use of ordinary hand tools to impart rotation to the shaft. It is understood and contemplated that the head on the second end of the shaft may have different geometric configurations depending upon the tool that the user desires to employ. By way of example only, and not to limit the possible structures contemplated, the head **19** could be square to accommodate certain wrenches, slotted to accommodate a screwdriver, or a hex socket type for use of a standard hex wrench to secure.

The blade guide insert **24** comprises a metallic block of material having an upper surface **32** and a lower surface **34**, each said surface having a generally rectangular shape,

although other polygonal shapes are also contemplated. A circular recess **25** is formed in the central region of the upper surface **32** of the guide insert to rotatably receive the protruding enlarged head **17** of the shaft **16**. One or more tapped screw holes **26**, which correspond in location with said one or more untapped screw holes **20** in the base plate **14**, are also provided in the upper surface **32** of the guide insert **24**, for threadably receiving the corresponding one or more fasteners **22**. According to the shown preferred embodiment, two holes **26** are formed in the upper surface of the guide insert **24**, one on either side of the larger central recess **25**, and corresponding to the two holes **20** formed in the base plate **14**.

As best shown in FIG. 6, the guide insert **24** is formed of a bimetallic material such that the metal of lower region **28** is harder and more abrasion resistant than the metal of the upper region **27**. The metal used on the lower region **28** will be in direct contact with the saw blade **11** by way of lower surface **34**, and therefore should consist of a highly abrasion resistant alloy. Preferably austenitic chromium-carbide alloy having a Brinell hardness number between 460 and 614 is used as the metallic material for the lower region **28**. The upper region **27** must consist of a sufficiently soft material to allow drilling for the tapped screw holes **26** and machining of the circular recess **25** therein. Preferably, carbon steel is used as the metallic material for the upper region **27**. The bimetallic guide insert is formed in such a way that the region near the center of the insert **24** consists of a combination of the two metals, thereby providing one unitary, solid, bimetallic block insert.

A securing nut **30** is provided to fixedly secure the base plate **14** and guide insert **24** in non-rotatable engagement with the shaft **16**. The inner surface of the securing nut

threadably engages the threaded region **18** of the shaft. By rotating the nut **30** in relation to the shaft, the nut can be translated along the longitudinal axis of the shaft **16**. When the nut is translated to the lowermost position on the shaft **16**, a lower surface of the nut **30** frictionally engages the upper surface of the base plate **14**, thereby preventing rotation of the base plate with respect to the shaft. When the nut **30** is rotated such that the lower surface thereof does not frictionally engage the upper surface of the base plate, the guide block **13** is freely rotatable in relation to the shaft **16**.

According to the preferred use and operation of the present invention, two guide assemblies **10a, 10b** are disposed on opposing sides of the saw blade **11** to prevent lateral vibration, bending or dishing of the blade during sawing operations. The threaded shaft **16** is threadably received in a threaded opening disposed in a mounting bracket of the saw mill assembly. The position of the guide blocks **13a, 13b** relative to the blade **11** are then adjusted by engaging the hexagonal heads **19a, 19b** with an appropriate wrench to rotate the shafts **16a, 16b** in relation to the mounting brackets to move the shafts **16a, 16b** and guide blocks **13a, 13b** along the longitudinal axis of the respective shafts **16a, 16b** until the guide blocks **13a, 13b** are optimal distances from the blade surface, and extend toward the opposing blade surfaces as shown in **FIG. 2**. The nuts **30a, 30b** are disposed along the respective longitudinal axes of the shafts **16a, 16b** such that the lower surface thereof is not in engagement with the upper surface of the respective base plates **14a, 14b**, thereby permitting the base plates **14a, 14b** and the inserts **24a, 24b** respectively carried thereon to freely rotate about the axes of the respective shafts **16a, 16b**. This allows the guide blocks **13a, 13b** to be rotated such that the major longitudinal axis of each guide block aligns with the longitudinal axis of the blade **12**. Once the guide blocks **13a, 13b**

are properly positioned, the nuts **30a**, **30b** are rotated until the lower surfaces thereof come into frictional engagement with the respective upper surfaces of the base plates **14a**, **14b**, and then the nuts are tightened against the base plates to prevent rotation of the base plate relative to the shaft, thereby securing the guide block in the properly aligned position with regard to the blade.

A guide block **113** according to an alternative preferred embodiment is shown in **FIG. 8** and **FIG. 9**. The guide block **113** according to the alternative embodiment includes a T-slot **115** formed therein. The T-slot **115** has an open end **116** along one sidewall of the guideblock and a closed end **117** near a central portion of the block **113**. The closed end **117** may be rounded so as to accommodate the enlarged circular head **17** of the threaded shaft **16** therein. The guide is assembled by sliding the enlarged head **17** of the shaft **16** into the large opening of the T-slot with the shaft **16** extending through the smaller T-slot opening. The T-slot **115** is sized and shaped to allow rotation of the shaft **16** relative to the guide block **113**. An end plate **118** is secured over the open end of the T-slot to secure the shaft **16** therein. The end plate **118** is secured to the guide block by fasteners **119** in the same manner the base plate of the first embodiment is secured to the insert. A securing nut **30** is also provided to render the shaft nonrotatable in relation to the guide block when a surface of the nut engages the upper surface of the guide block **113**.

Although the present invention has been illustrated and described herein with respect to certain preferred embodiments, it is not intended that this patent should be limited in scope and coverage by such details other than as specifically set forth in the following claims.

CLAIMS

I claim:

1. A guide for stabilizing a saw blade, said guide comprising:
 - a guide block having a first surface for engaging a surface of a saw blade and a second opposing surface;
 - a threaded shaft extending outwardly from said second surface of said guide block, said threaded shaft having a first end rotatably engaging said guide block;
 - a securing nut threadably engaging an outer threaded surface of said threaded shaft, said securing nut being rotatable with respect to said threaded shaft such that a surface of the securing nut engages the second surface of said guide block upon rotation into engagement therewith thereby rendering the threaded shaft nonrotatable in relation to the guide block.
2. The guide of claim 1 wherein said guide block comprises:
 - a base plate having a top surface and a bottom surface; and
 - an insert disposed on said bottom surface of said base plate, said insert having an upper surface in engagement with said bottom surface of said base plate and a lower surface for engaging a surface of a saw blade.
3. The guide of claim 2 further comprising one or more fasteners for securing said insert to said base plate.

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4. The guide of claim 3, wherein said one or more fasteners extend from the bottom surface of the base plate into an upper surface of said insert.
5. The guide of claim 4, wherein said one or more fasteners pass through corresponding one or more openings in said base plate.
6. The guide of claim 5, wherein said one or more fasteners are threaded fasteners and said insert includes one or more corresponding threaded opening for receiving said threaded fasteners.
7. The guide of claim 1, wherein said guide block is bi-metallic, the metallic material of said bi-metallic guide block proximal to the first surface thereof being harder than the metallic material proximal to the second surface thereof.
8. The guide of claim 7, wherein the metallic material proximal to the first surface thereof is chromium-carbide.
9. The guide of claim 8, wherein the metallic material proximal to the first surface thereof is austenitic chromium-carbide.
10. A guide for stabilizing a saw blade, said guide comprising:
 - a base plate having a top surface and a bottom surface;
 - a threaded shaft extending outwardly from said top surface of said base plate, said threaded shaft having a first end rotatably engaging said base plate;
 - an insert disposed on said bottom surface of said base plate; and
 - means for selectively non-rotatably engaging the base plate and threaded shaft.



11. The guide of claim 10, wherein said insert is bi-metallic such that the metallic material of said bi-metallic insert proximal to a lower surface thereof is harder than the metallic material proximal to an upper surface thereof.
12. The guide of claim 11, wherein the metallic material proximal to the lower surface thereof is chromium-carbide.
13. The guide of claim 10 further comprising one or more fasteners extending through one or more corresponding openings in said base plate and into said upper surface of said insert for securing said insert to said base plate.
14. A metallic insert for a saw blade guide for stabilizing a saw blade, said insert comprising a bi-metallic guide block wherein the metallic material of said bi-metallic guide block proximal to a first blade engaging surface thereof is harder than the metallic material proximal to a second guide engaging surface.
15. The insert of claim 14, wherein the metallic material proximal to the first blade engaging surface thereof is austenitic chromium-carbide.
16. The insert of claim 15, wherein the bi-metallic material proximal to the second guide engaging surface thereof is carbon steel.
17. The insert of claim 14, wherein the second guide engaging surface of said bi-metallic guide block is connected to a base plate of the saw blade guide by one or more fasteners.
18. The insert of claim 17, wherein said one or more fasteners extend from a bottom surface of the base plate into the second guide engaging surface of said guide block.

19. The insert of claim 18, wherein said one or more fasteners pass through corresponding one or more openings in said base plate.
20. The insert of claim 19, wherein said one or more fasteners are threaded fasteners and said guide block includes one or more corresponding threaded opening for receiving said threaded fasteners.

ABSTRACT OF THE DISCLOSURE

An improved guide for stabilizing the saw blade of a saw mill assembly is provided. The guide includes a guide block having a first surface for engaging a surface of a saw blade and a second opposing surface. A threaded shaft extends outwardly from the second surface of the guide block, and is generally rotatable in relation to the guide block. A securing nut threadably engages the shaft such that a surface of the securing nut engages the second surface of said guide block upon rotation into engagement therewith thereby rendering the threaded shaft nonrotatable in relation to the guide block. An improved guide block or insert is also provided. The insert is bi-metallic such that the metallic material proximal to a first blade-engaging surface thereof is harder than the metallic material proximal to a second guide-engaging surface.

FIG. 1

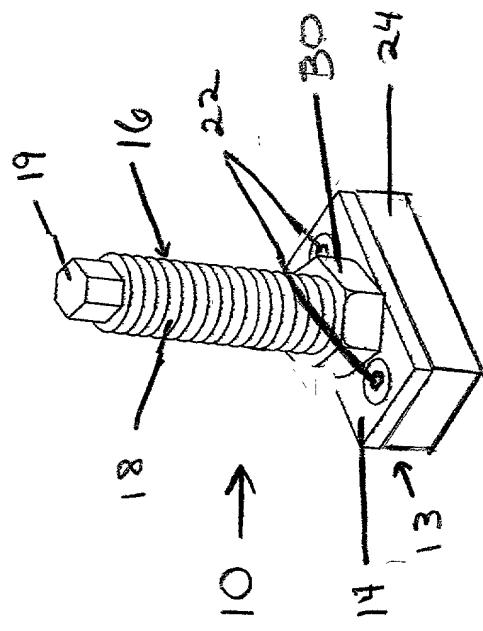
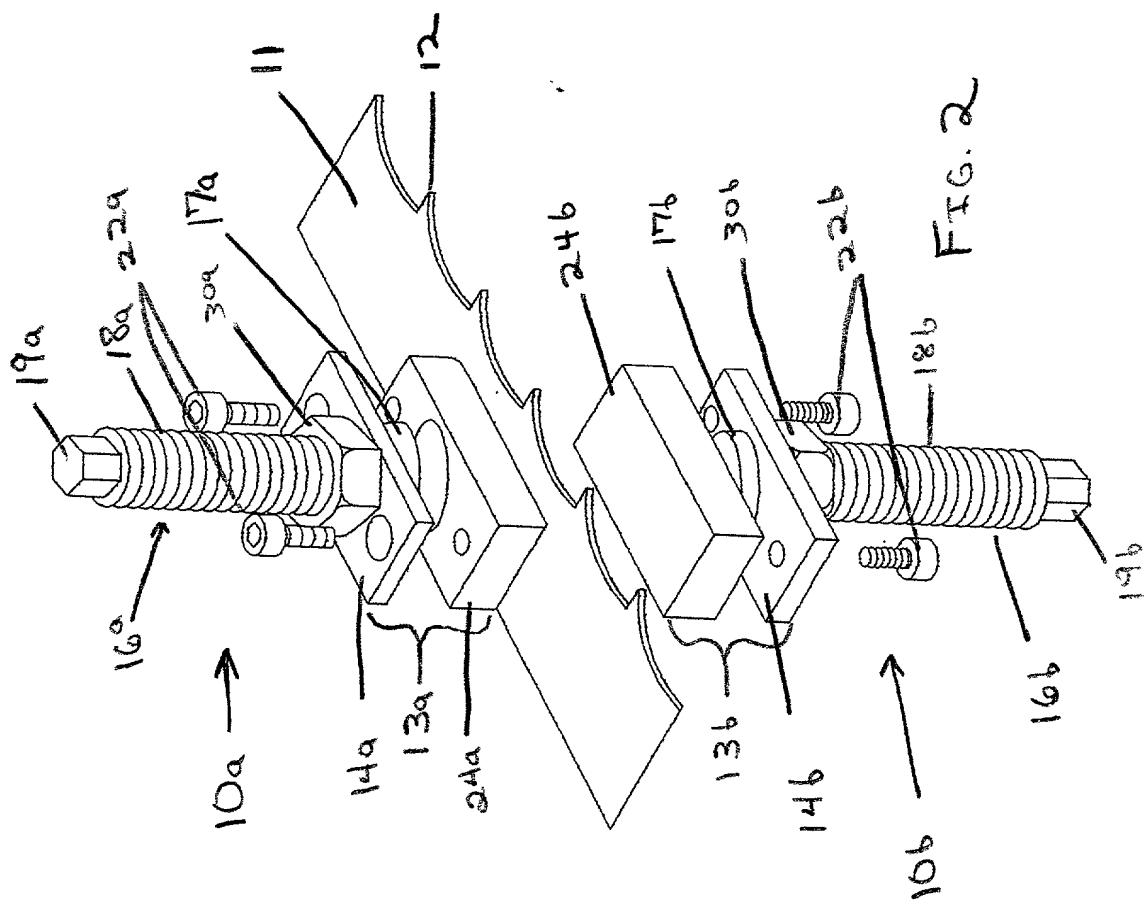
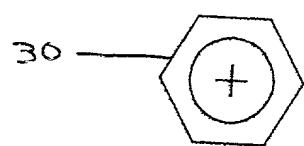
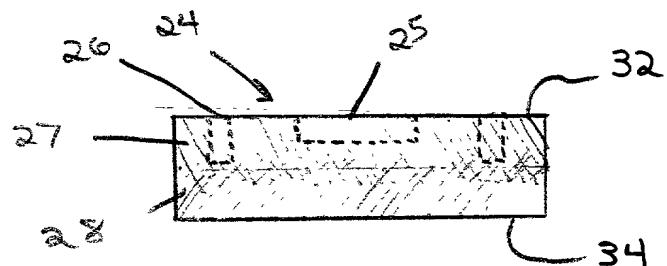
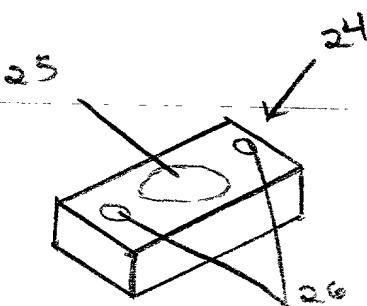
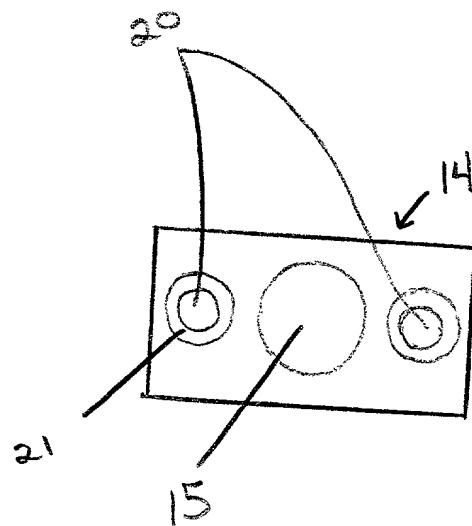
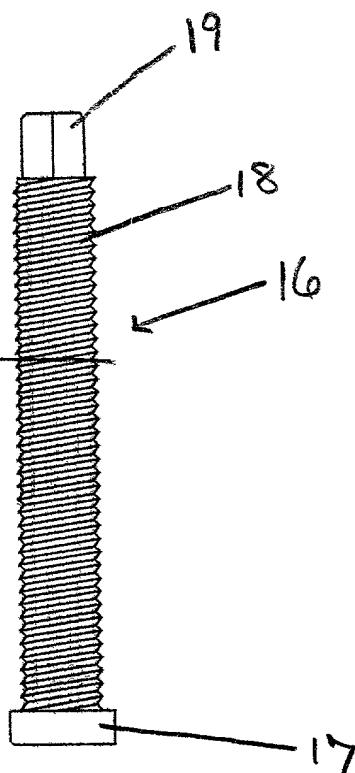


FIG. 2





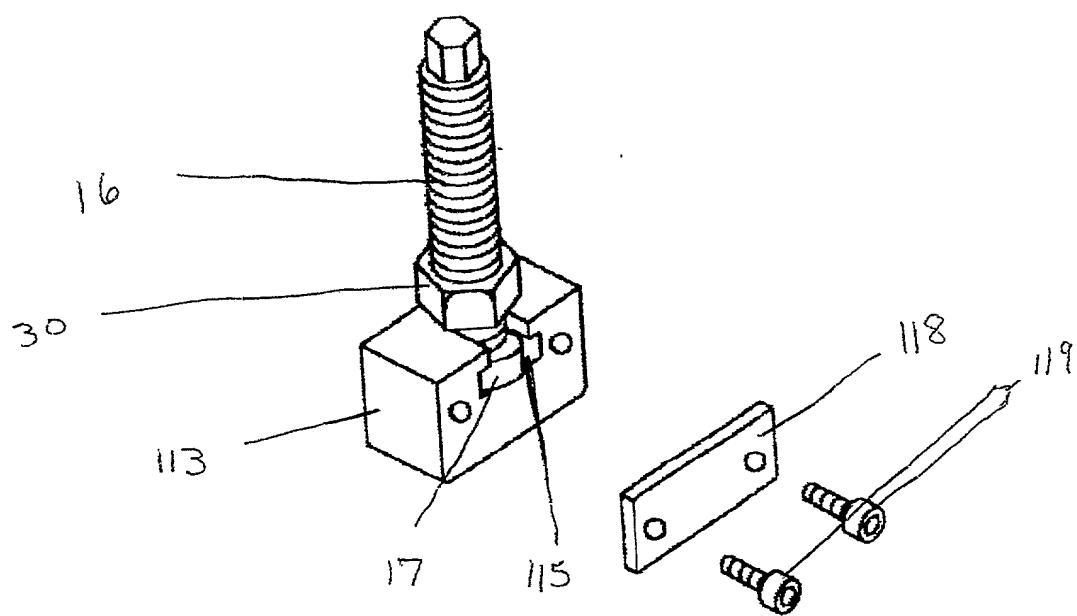


FIG. 8

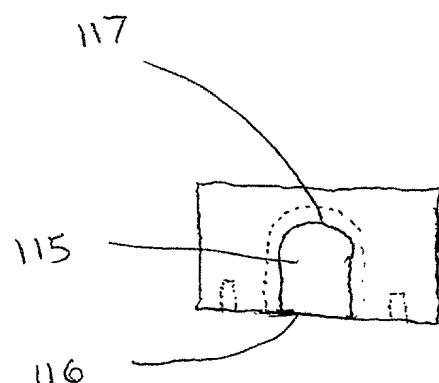


FIG. 9

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PTO/SB/01 (12-97)

Approved for use through 9/30/00. OMB 0651-0032

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**DECLARATION FOR UTILITY OR
DESIGN
PATENT APPLICATION
(37 CFR 1.63)**

Declaration Submitted with Initial Filing Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)

Attorney Docket Number	TSMI:001
First Named Inventor	Belfiglio, Edward E.
COMPLETE IF KNOWN	
Application Number	/
Filing Date	
Group Art Unit	
Examiner Name	

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

IMPROVED SAW BLADE GUIDE AND COMPONENTS THEREFOR

the specification of which

(Title of the Invention)

is attached hereto
OR

was filed on (MM/DD/YYYY)

as United States Application Number or PCT International

Application Number

and was amended on (MM/DD/YYYY)

(if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?
			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
N/A			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

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[Page 1 of 2]

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U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)

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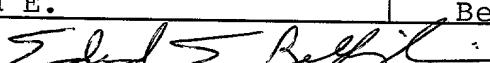
Name	Registration Number	Name	Registration Number
C. Richard Martin	37,080		

Additional registered practitioner(s) named on supplemental Registered Practitioner Information sheet PTO/SB/02C attached hereto.

Direct all correspondence to: Customer Number or Bar Code Label OR Correspondence address below

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor:	<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle if any)			Family Name or Surname			
Edward E.			Belfiglio			
Inventor's Signature						Date <input type="text" value="8/23/00"/>
Residence: City	Owensboro	State <input type="text" value="KY"/>	Country <input type="text" value="USA"/>	Citizenship <input type="text" value="US"/>		
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City <input type="text" value="Owensboro"/>	State <input type="text" value="KY"/>	ZIP <input type="text" value="42303"/>	Country <input type="text" value="USA"/>			

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